

FIG. 1

MOBILE UNIT

2/12

110
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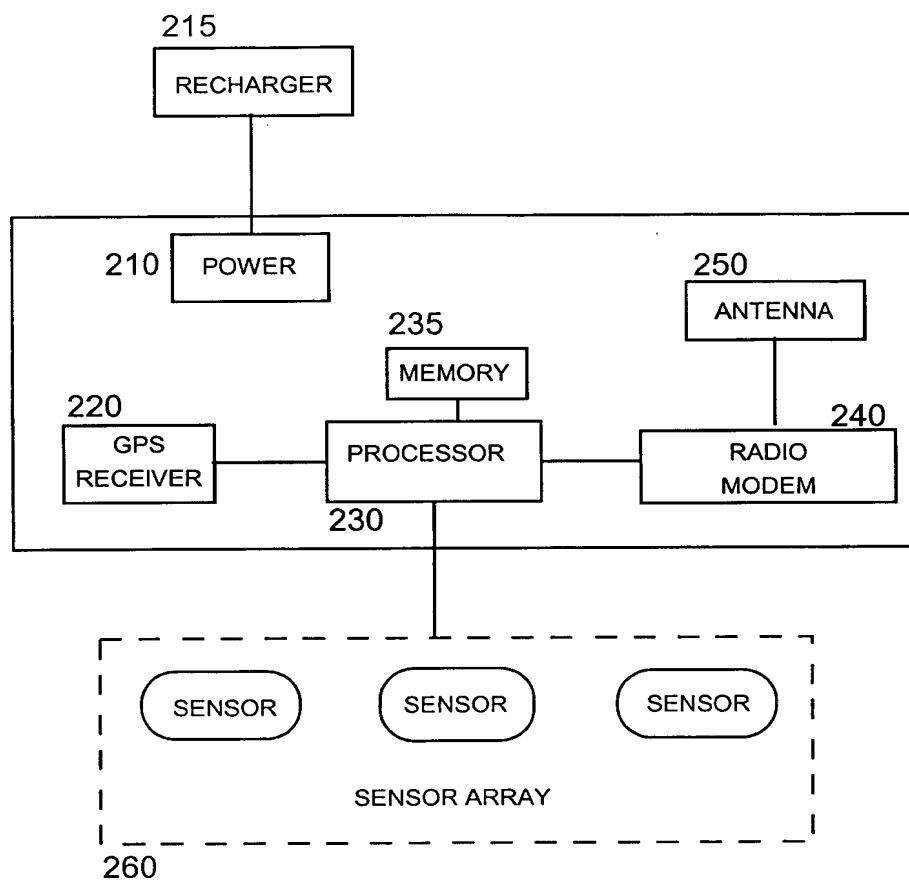


FIG. 2

3/12

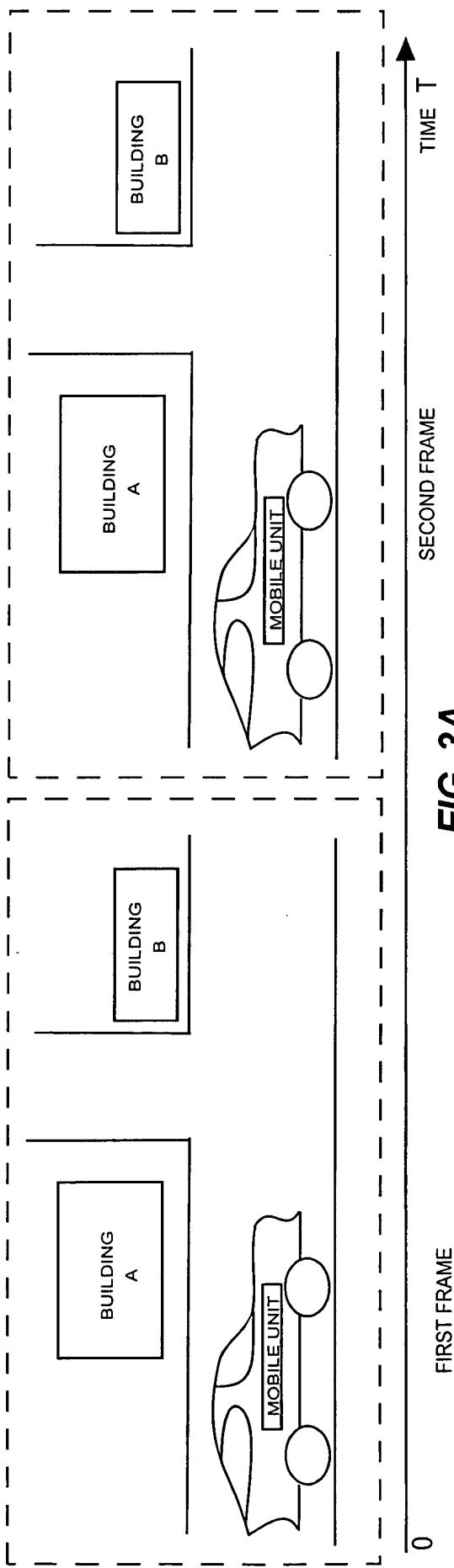


FIG. 3A

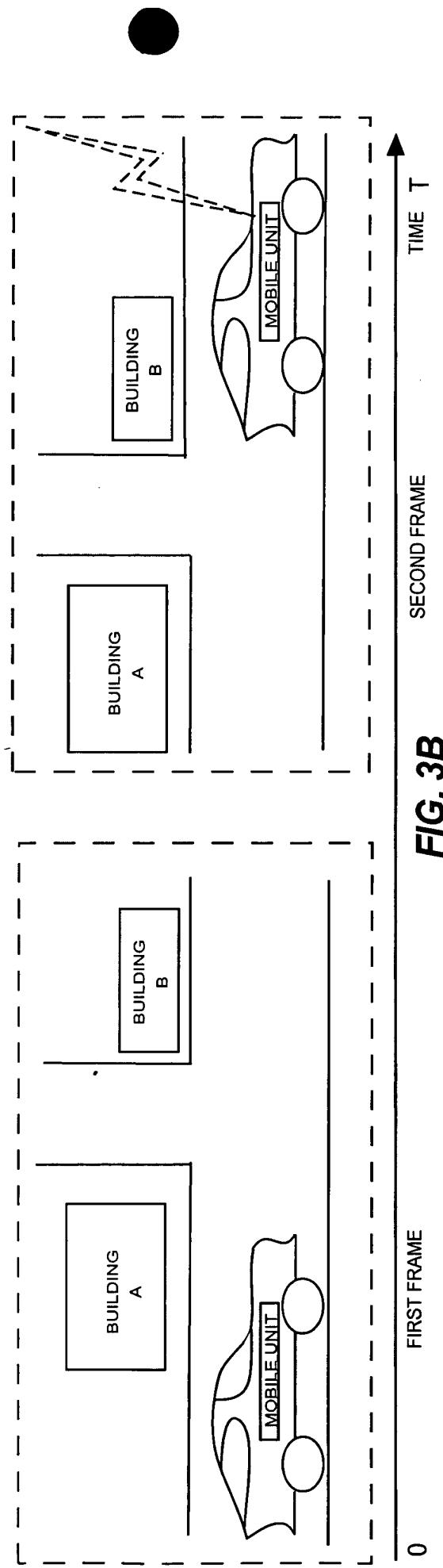


FIG. 3B

4/12

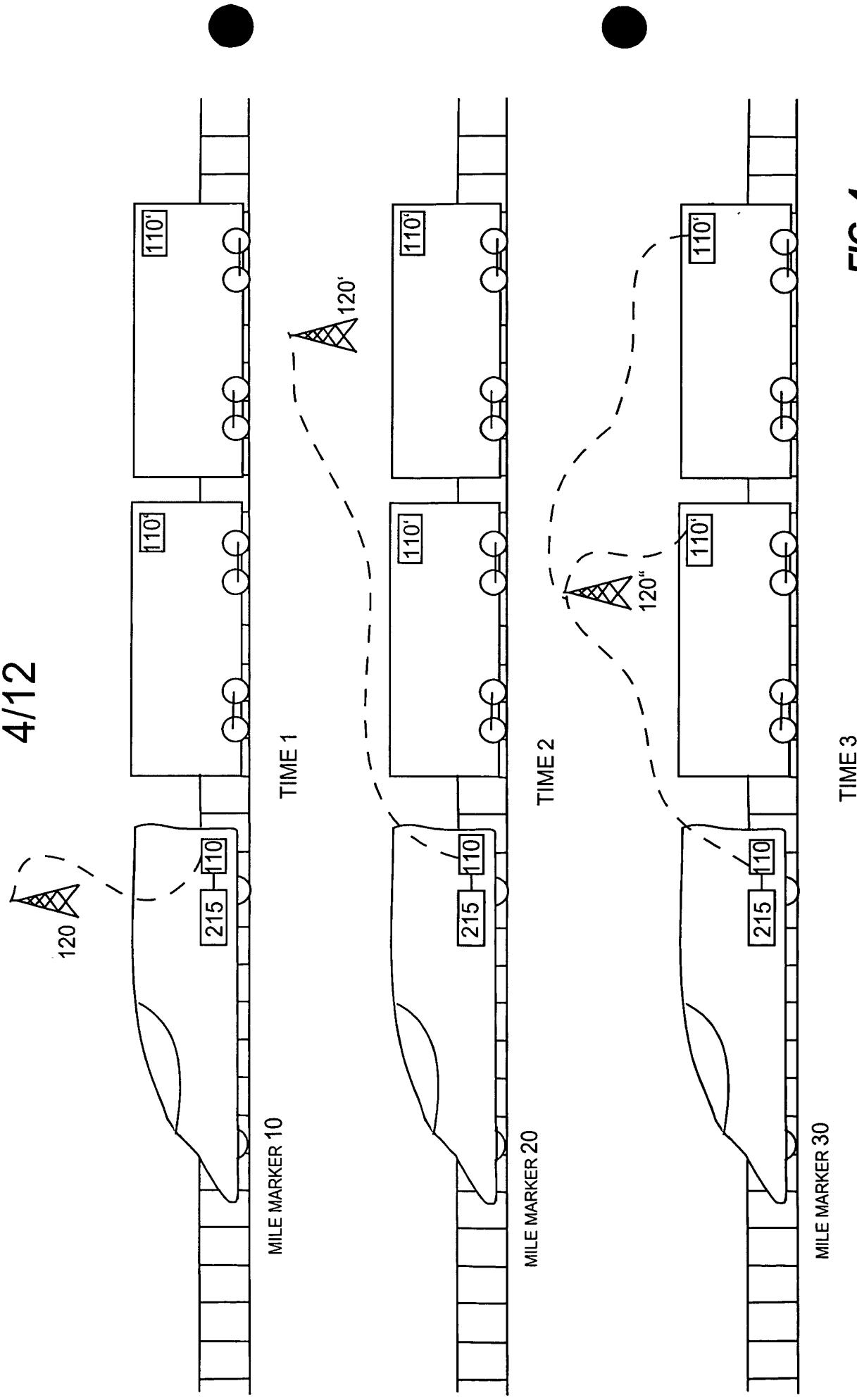
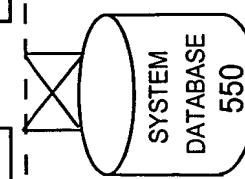
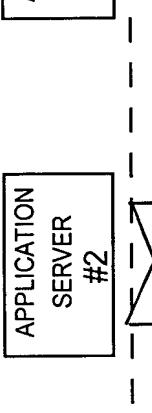
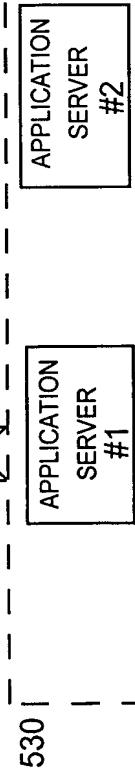
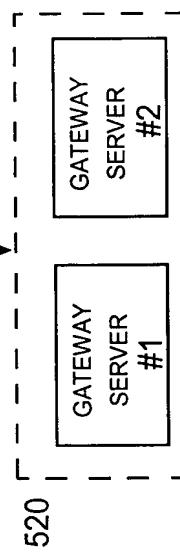
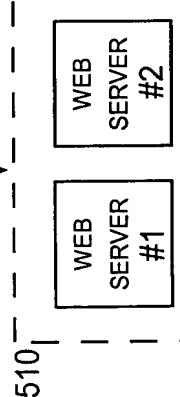
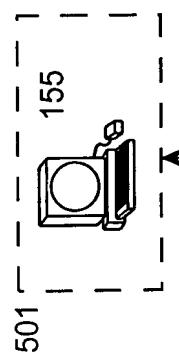


FIG. 4

5/12

SYSTEM ARCHITECTURE

500



F/G.5

MOBILE MESSAGES

6/12

600



CLASS 128

610

LOCATION PACKET



615

MOBILE ID
DAY AND TIME
LATITUDE AND LONGITUDE
SPEED AND HEADING
FLAGS

CLASS 129

620

PING REQUEST



625

LOCATION REQUEST

CLASS 130

630

SHORT MESSAGE



635

MOBILE ID
MESSAGE ID
STATUS INFORMATION
FLAGS

CLASS 150

640

COMMAND REQUEST



645

SET GATEWAY ADDRESS/
SET REPORT INTERVAL/
REPORT SAVED LOCATIONS/
COLD START MOBILE/
WIPE LOGS/
REQUEST STATS/

7/12

POWER CONSERVATION
ROUTINE

700

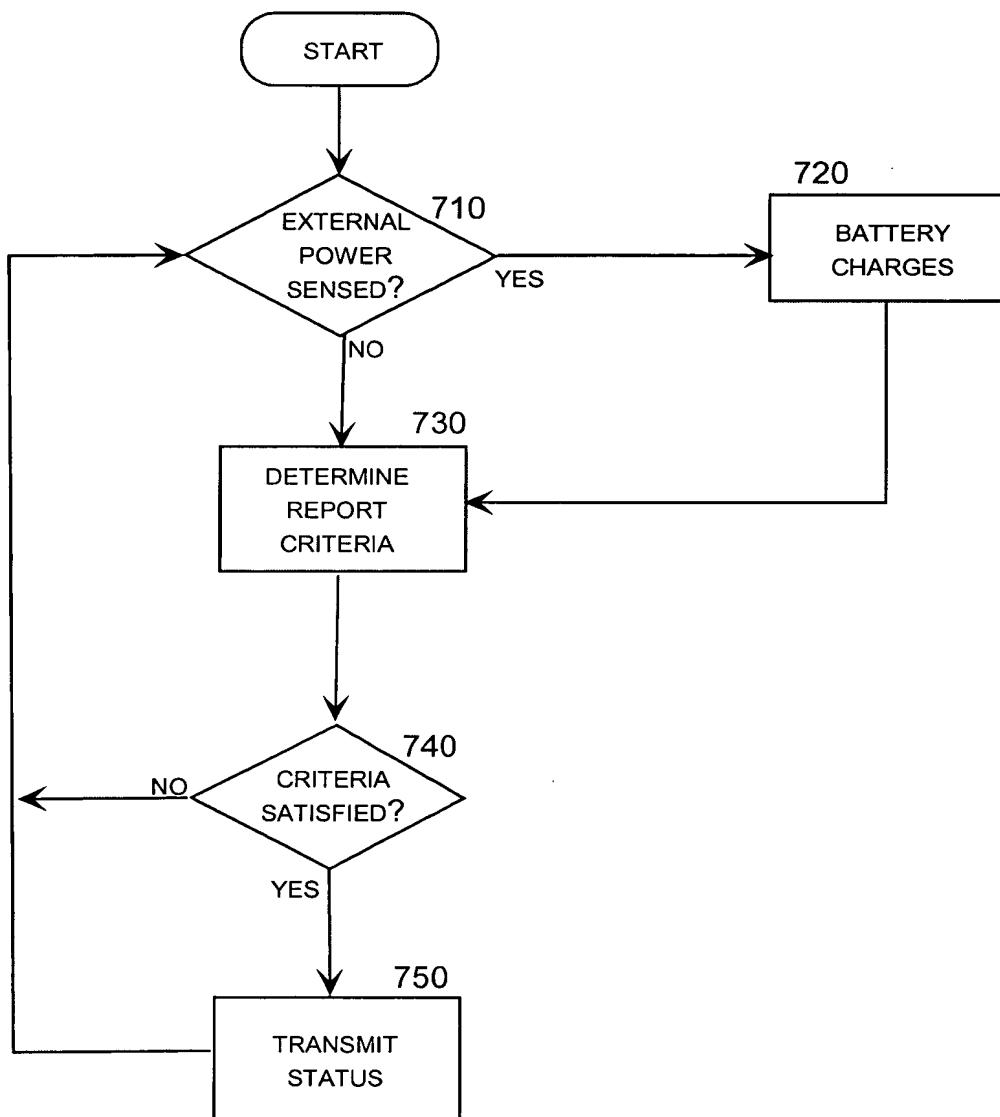
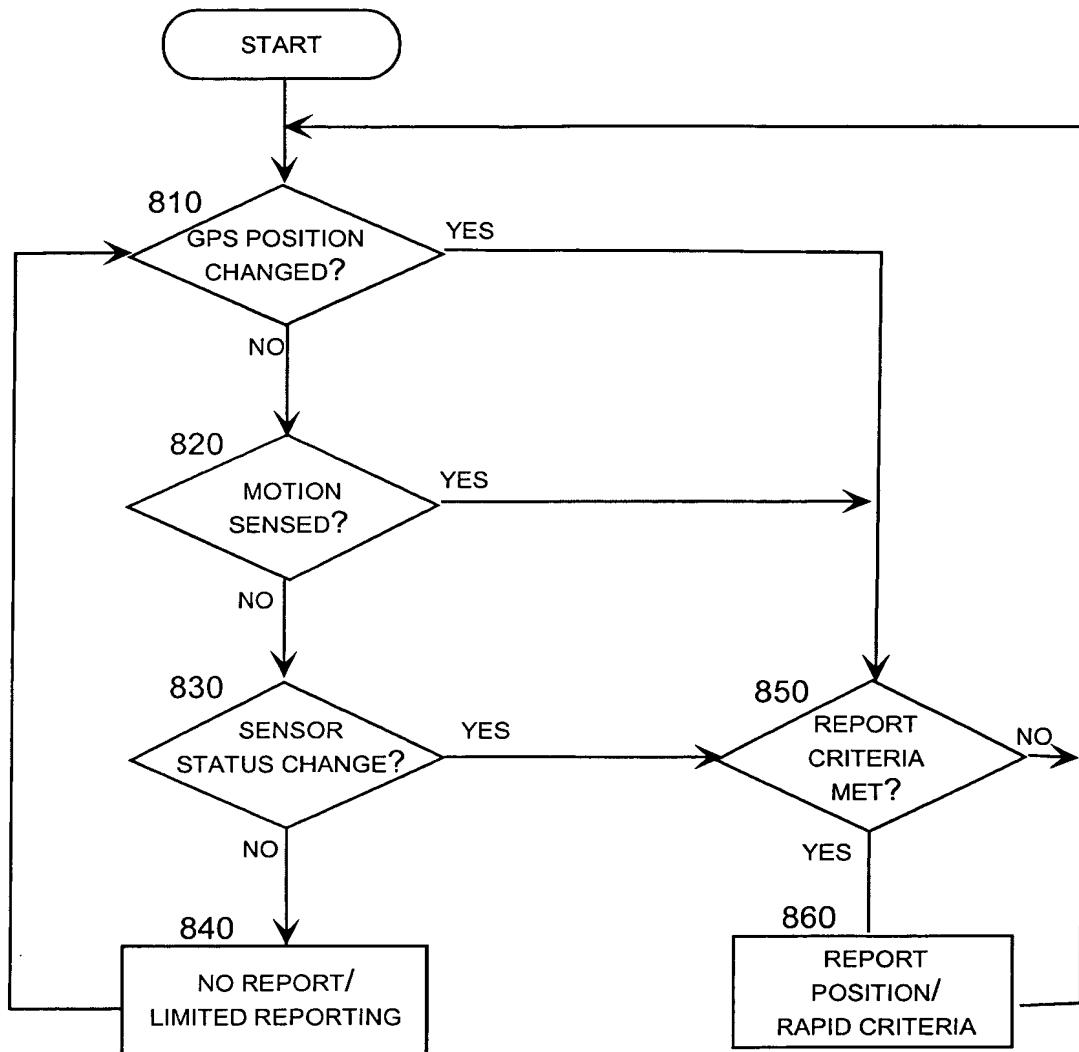


FIG. 7

8/12

BROADCAST ROUTINE

800



09541004 09541004 09541004 09541004

FIG. 8

9/12

MOBILE UNIT
TRACKING ROUTINE

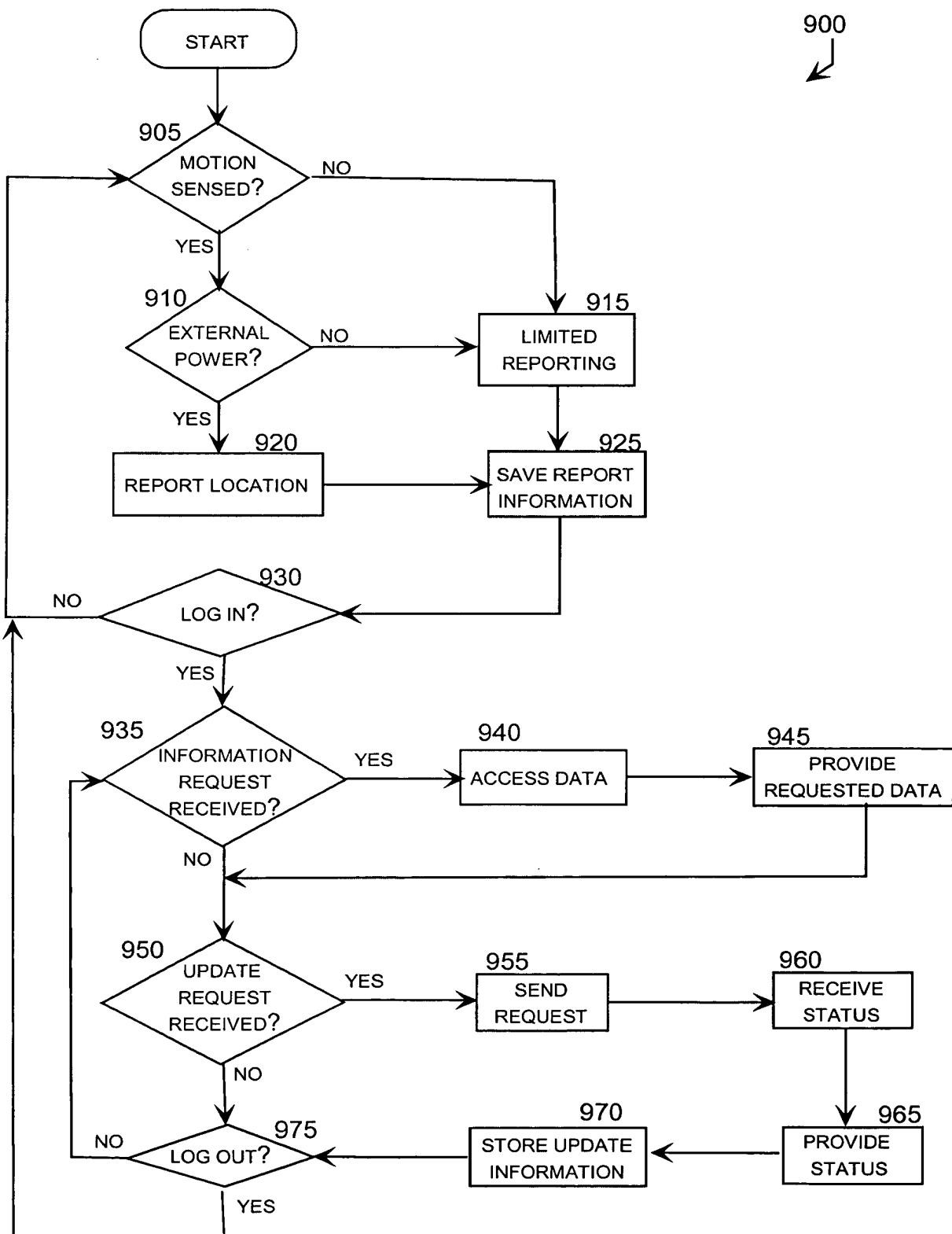


FIG. 9

1000

10/12

1010	LOGO	◀ ▶	⊗	□	⌂	🔍	✉
1020	MAPS	ACCOUNTS	CONTACTS	HELP	LOGOUT	REPORTS	
1030	FIND REPORTS HISTORY ZONES ALERTS LABELS				PRINT	DETAILED ACTIVITY	
1040	DETAILED ACTIVITY FOR DEMO				SELECT MODE		1050
	SUNDAY, NOVEMBER 26, 2000	TIME	FLAGS	HEADING	SPEED	LATITUDE	LONGITUDE
	1:06:00 AM	G--M-	NE (34 DEG)	6 MPH	32.9195 N	80.0154 W	SELECT 1060
	1:06:00 AM	G--M-	NE (34 DEG)	6 MPH	32.9195 N	80.0154 W	26 ⌄ DAY
	4:05:00 AM	G----	(0 DEG)	0 MPH	32.9195 N	80.0155 W	NOV. ⌄ MONTH
	4:09:00 AM	G--M-	NW (306 DEG)	30 MPH	32.9044 N	80.0223 W	2000 ⌄ YEAR
	4:11:00 AM	G-EMS	NW (320 DEG)	73 MPH	32.9229 N	80.0541 W	SUBMIT 1070
	4:12:00 AM	G--M-	N (351 DEG)	71 MPH	32.9447 N	80.0757 W	
	4:14:00 AM	G-EMS	NW (307 DEG)	75 MPH	32.9718 N	80.0837 W	
	4:15:00 AM	G--M-	NW (319 DEG)	72 MPH	32.9890 N	80.1019 W	

FIG. 10

11/12

FIG.11

1100
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DISCRETE WIRELESS

<http://www.discretestwireless.com/dwml/members/default.asp> - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address Go Back Forward Stop Refresh

CONTACTS ACCOUNT INFORMATION MAPS REPORTS HISTORY ALERTS LABELS

HISTORY

Select mobile: 1140
 1140
Select Day: 1150
 1150
2 Day
October Month
2001 Year
Select Time: 1160
6:00 AM From Hour
6:00 PM To Hour
Show: 1170
 Time Stops
 Route Markers
 Trail Highlight
 Speed > mph
SUBMIT 1180

ZOOM OUT **ZOOM IN** **Recenter**

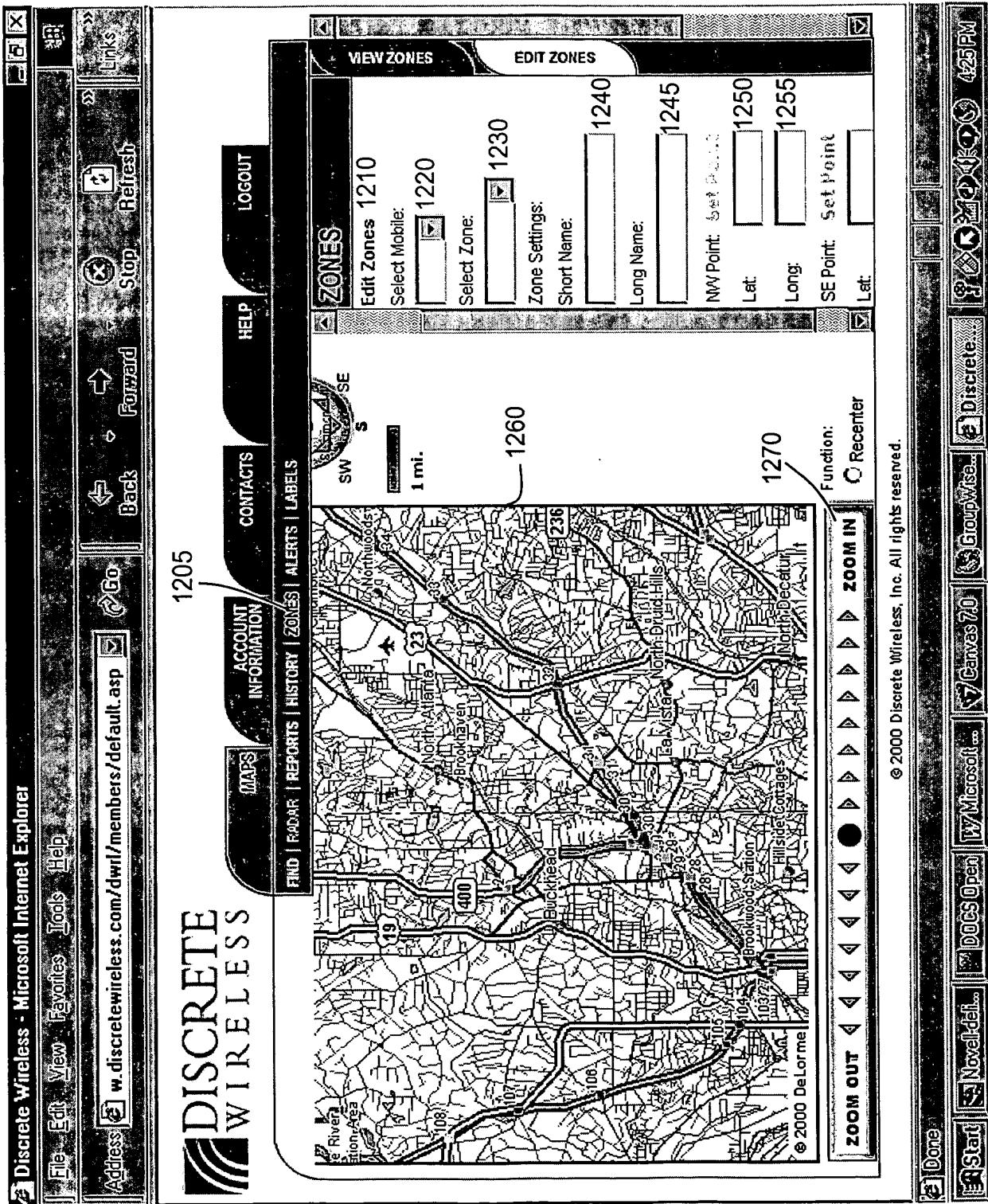
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<http://www.discretestwireless.com/dwml/members/navbar/maps.asp?subnav=3#>

The map displays the Atlanta metropolitan area with numerous cell tower locations marked by black dots. Coverage zones are represented by shaded areas. Major cities labeled include Atlanta, Marietta, Roswell, Sandy Springs, Buckhead, Midtown, Piedmont Park, Peachtree City, Smyrna, Woodstock, Alpharetta, Duluth, Suwanee, Lawrenceville, Snellville, Union City, Jonesboro, McDonough, Covington, and Newnan. Roads and major landmarks are also visible.

12/12

FIG. 12



1200
A